

SOCHOR, Bretislav; HRUBY, Karel

Some problems in using refractory materials in induction melting furnaces in foundries. Slevarenstvi 10 no.11:443-446 N '62.

1. Statni vyzkumny ustav materialu a technologie, slevarensky vyzkum, Brno.

HRUBY, KAREL

Genetics
Plant Biology

DECEASED

0'63

1964

HRUBY, L.; PLAVUCHOVA, O.

Karyogram of the jejunal epithelium in the rat during the conversion from milk to solid food. Cesk. morf. 10 no.4:435-441 '62.

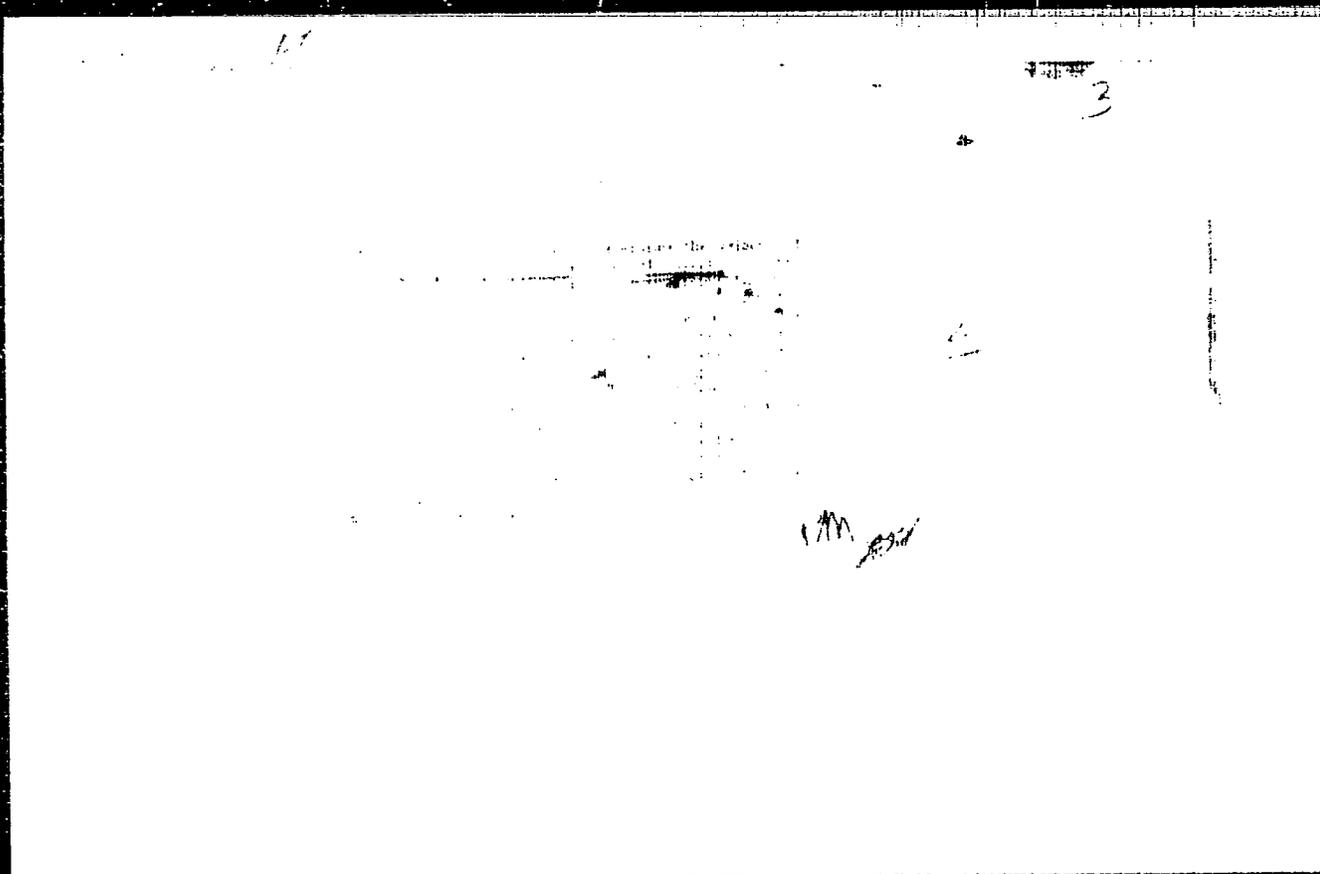
1. Ustav histologie a embryologie Lekarske fakulty Safarikovy university v Kosicich.

(JEJUNUM)

(CELL DIVISION)

(DIET)

(MILK)



HRUBY, M.

"Technical and economic analysis of the production of acetylene."

CHEMICKY PRUMYSL, Praha, Czechoslovakia, Vol. 5, No. 10, October 1955.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959.

Unclassified.

HRUBY, M.; VESELY, F.

HRUBY, M.; VESELY, F. Transfer of research problems from the laboratory to operation. p. 513.

Vol. 5, No. 11, Nov. 1955
ZA SOCIALISTICKOU VEDU A TECHNITU
TECHNOLOGY
Praha, Czechoslovakia

So: East European Accession, Vol. 5, No. 5, May 1956

MT *Handwritten initials*
 Most fundamentals of the stretching process. M. Hrubý (Fasci-
 ferská. v. Textiltech., 1955, 6, 309-314). *Handwritten: 2-10-55*
 fundamentals of the stretching of synthetic (e.g. nylon, polyvinyl
 chloride) fibres are studied by a mathematical analysis of the mobility
 heat transfer. Commencing with a single filament of circular cross-
 section and continuing to a multi-filament thread. Both the
 "cold" and "hot" drawing processes are studied. For the cold-
 drawing process an equation is given for the heat generated by work
 done in the stretching, and the influence of practical factors (friction
 between thread and guides, temp. and character of the surrounding
 air etc., and time of thread contact with the air or other media)
 are discussed. In hot-stretching processes the heat factors of the
 heating medium are also studied, and both the heat penetration
 of the fibre and the heat transfer are examined. The problems of
 multi-filament thread stretching discussed include the relative
 efficiency of heating by media and by solid heating surfaces, and
 the effect of the self-heating of the fibre through stretching.
 H. F. WHITMAN. *Handwritten: JW*

MIRKO HRUBY

CZECHOSLOVAKIA / Chemical Technology. - Processes and Apparatus of Chemical Technology. Chemical Products and Their Application. Part 1. H-2

Abs Jour : Referat. Zhurnal Khimiya, No 4, 1958, 11602.

Author : ~~Mirko Hruby.~~

Inst : Not given

Title : Heat Removal in Tubular Reactors at Emulsion Polymerization.

Orig Pub : Chem. prumysl., 1957, 7, No 6, 321 - 326.

Abstract : The question of heat removal in tubular reactors under the conditions of the laminar and the turbulent regimes at reactions of the zero order was investigated theoretically. Relations for the computation of the reactor capacity and the polymerization rate were obtained. A graph was plotted for the particular case of vinyl chloride, this graph connects

Card 1/2

Card 2/2

COUNTRY : CZECHOSLOVAKIA ii
 CATEGORY : Chemical Technology. Chemical Products and Their Applications. Chemical Engineering
 ABS. JOUR. : RZhKhim., No 19, 1959, No. 68158

AUTHOR : Hruby, M.; Peroutka, O.
 INSTITUTE : -
 TITLE : Investigation of Possibilities of Employing Heat Pumps in the Heating of Rectification Columns.
 ORIG. PUB. : Chem. prumysl, 1958, 8, No 1, 4 - 10

ABSTRACT : Factors pertaining to technology and economics of the feasibility determination of employing heat pumps in the rectification practice are reviewed.
 -- R. Terekhin

Card: 1/1

HRUBY, Mirko

Relation between the flow and holdup of liquid phase in packed towers. Chem prum 12 no.8:394-399 Ag '62.

1. Vyzkumny ustav makromolekularni chemie, Brno.

HRUBY, Mirko

Basic problems of boiling and condensation in the direct removal of heat from liquid reaction systems. Chem prum 14 no.1:5-8 Ja'64.

1. Vyzkumny ustav makromolekularni chemie, Brno.

HRUBY, M.; SVANHALOVA, V1.

Attempt at determining the effect of urban air pollution on
the consumption of antiasthmatic drugs. Cesk. hyg. 9 no.2:
65-72 Mr'64

1. Krajska hygienicko-epidemiologicka stanice Jihomoravskeho
KNV, Brno.

*

HRUBY, STANISLAV

Zooveterinarni citanka. Praha, Statni pedagogicke nakl. (Ucetni texty
vysokych skol) (Textbook of veterinary medicine. In Russian)

Vol. 1. 1953

DA Not in DLC

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

HRUBY, Stanislav; MARESOVA, Pavla

Use of pyrocarbonic acid diethyl ester in food canning.
Prum potravin 14 no.6:327-329 Je '63.

1. Lekarska fakulta hygienicka, Karlova universita, oddeleni
hygieny vyzivy, Praha.

Hruby, STANISLAV

CZECHOSLOVAKIA/Chemical Technology, Chemical Products
and Their Application, Part 3. - Food Industry.

H-23

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 34334.

Author : Stanislav Hruby, Antonin Naus.
Inst : Not given.
Title : Spice Molding.

Orig Pub: Průmysl potravin, 1957, 8, No 7, 379-380.

Abstract: It was found that all kinds of spices can mold and become the source of contamination of various food products with mold fungi.

Card : 1/1

EXCERPTA MEDICA Sec 11 Vol.11/9 O.R.L. Sep 58

1561. AN OTOLARYNGOLOGICAL COMMENT ON THE OCCURRENCE OF MOULDS IN SPICES - Otolaryngologická poznámka k výskytu plísní v koření - Hrubý S., Nauf A. and Pihrt J. Hyg. Kat. a ORL klin. LFH KU, Praha - PRÁCOVNÍ LÉKARSTVÍ (Praha) 1957, 9/4 (322-324) Tables 4

On the basis of personal investigations, backed up by laboratory tests, it can be stated that all types of spices are markedly infected by moulds. There is a striking relationship between this and the appearance of a greyish-white coating in the mouths of workers in spice plants. The origins of this coating are discussed. It is suggested that when the mucous membrane is irritated by spices penicillium gl., aspergillus and mucour may find purchase. The need for oral hygiene in affected workers is stressed.

HRUBY, S.; MARESOVA, P.

Methods of microbiological examination of canned food. p. 547.

CESKOSLOVENSKA HYGIENA. Praha, Czechoslovakia. Vol. 4, no. 9, Oct, 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, January 1960.

Uncl.

HRUBY, S.; MARESOVA, P.; PELECH, L.

Effect of spices on the content of microflora in foodstuffs. p. 417

PRUMYSL POTRAVIN. (Ministerstvo potravinarskeho prumyslu) Praha,
Czechoslovakia, Vol. 10, no. 8, Aug. 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 9, no. 2,
Feb. 1960

Uncl.

HRUBY, S.; MABATKA, Z.; NAUS, A.

The effect of spices on the gastrointestinal system of workers engaged in processing spices. Pracovni lek. 12 no.7:360-361 S '60.

1. Katedra hygieny prace a chorob z povolani LFH KU. Oddeleni hygieny vyzivy LFH KU. Interni oddeleni Nemocnice na Bulovce.
(CONDIMENTS toxicol.)
(GASTROINTESTINAL SYSTEM pharmacol.)
(OCCUPATIONAL DISEASES)

HRUBY, Stanislav; MARATKA, Zdenek; MAUS, Antonin; PIHRT, Jaroslav

Certain health problems related to the use and processing of
spices. Cas.lek.cesk.99 no.40:1261-1266 30 S'60.

1. Katedra hygieny vyziwy a hygieny prace a chorob z povolani
LFH KU, prednostove doc. MUDr.A.Wolf a doc. MUDr. B.Svestka.
Interni oddeleni nemocnice Bulovky, primar doc. MUDr. Z.Maratka.
ORL katedra LFH, prednosta prof. MUDr. V.Hlavacek.

(CONDIMENTS)

(AIR POLLUTION)

CZECHOSLOVAKIA

MARESOVA, P; HRUBY, S.

1. Institute of Hygiene (Ustav Hygieny), Prague; 2. Ward of Hygiene of Adults of the Medical Faculty of Hygiene of KU (Oddeleni hygieny vyzivy lekarske fakulty hygienicke KU), Prague

Prague, Ceskoslovenska hygiena, no 9, 1963, pp ~~563-564~~ 564-567

"Hygienic Importances of Lopolytic Microorganisms."

EMBERGER, O.; HRUBY, S.; MAREŠOVA, P.; Technická spolupráce: KRALOVA, Z.;
UZLOVA, J.

The man and the intestinal microflora. Cesk. hyg. 10 no.1:39-49
F '65.

1. Ústav hygieny, Praha. Oddelení hygieny výživy lékařské fa-
kulty hygienické Karlovy University, Praha.

HRUBY, S.; STRONOVA, M.

Preservation with the diethyl ester of pyrocarbonic acid.
Cesk. hyg. 10 no.3:172-174 My '65.

1. Oddeleni hygieny vyzivy lekarske fakulty hygienicke
Karlovy University, Praha.

WOLF, A.; HRIVNAK, D.; HRUBY, S.

Endogenous alien substances formed in foods under the influence of ionising radiation. Cesk. hyg. 10 no.3:271-274 My '65

1. Katedra hygieny lekarske fakulty hygienicke Karlovy University, Praha.

HRUBEY, S.; MARESOVA, P.; PROKOP, L.

Biological test for the estimation of preservatives in foods.
Cesk. hyg. 10 no.1:10-17 F '65.

1. Oddeleni hygieny vizevy lekarske fakulty hygienicke Karlovy
University, Praha; Ustav hygieny, Praha.

HRUBY, St.

SURNAME (in caps); Given Names

Country: Czechoslovakia

Academic Degrees: o/not given/

Affiliation: Faculty of Medical Hygiene (Lekarska fakulta hygienicka), KU
/Karlova universita; Charles University/, Prague.

Source: Prague, Ceskoslovenska Hygiena, Vol VI, No 5, 1961, pp 310-314.

Data: "Sterilization of Spices by Means of Ethylene Oxide."

Co-authors:

MARESOVA, P., Department of Hygienical Diet (Oddeleni hyg.
vyzivy), Institute of Hygiene (Ustav hygieny),
Prague.

TVRZNIK, D., Central Bohemian Fruta National Enterprise
(Stredoceska Fruta, n.p.)

193

HRUBY, V

ZAHARIJA, I.; HRUBY, V.

The value of agglutination lysis in retrograde diagnosis of leptospirosis in man. Higijena, Beogr. 6 no.2:173-177 1954.

1. Iz Zavoda i Klinike za zarazne bolesti Veterinarskog fakulteta Sveucilista u Zagrebu i Higijenskog zavoda u Karlovcu
(LEPTOSPIROSIS, diag.
serodiag., agglut. lysis in retrograde diag.)

41852

S/263/62/000/006/007/015
I008/I208

26.2190

AUTHOR: Hruby, Vaclav

TITLE: An acoustical level meter

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 32. Izmeritel'naya tekhnika, no.6, 1962, 36, abstract 32.6.219P.
(Czech. patent, class 42c, 30/10, no.96586, September 15, 1960)

TEXT: Devices for continuous measurement of the level of a liquid in a reservoir, based on the reflection of a supersonic wave from the surface of the liquid contained in a tube immersed in the reservoir, do not ensure, on account of variations in the propagation velocity of the sound wave caused by fluctuations of the temperature and the pressure, sufficiently accurate results. It is proposed to produce in a tube immersed in the liquid transversal acoustical vibrations, their source being an electroacoustical transducer installed at the lower end of the tube. The propagation

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S/263/62/000/006/007/015
I008/I208

An acoustical level meter

velocity of such vibrations is nearly independent of variations in the temperature and the pressure. If the surface of the liquid foams or its reflection coefficient of sound is small, a float is inserted in the tube in order to reflect the acoustical vibrations. There are 5 figures. X

[Abstracter's note: Complete translation.]

Card 2/2

KROCZEK, J., inz., dr.; VINOPAL, K.; HRUBY, V.

Selenium rectifiers in power industries. Energetika Cz
7 no.2:77-81 F 57.

HRUBY, V.

"Technical maintenance determined by the consumption of motor fuels."

MECHANISACE ZEMEDLSTVI, Praha, Czechoslovakia, Vol. 5, No. 18, September 1955.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959.

Unclassified.

C Z E C H

The problem of spontaneous combustion of lignite.
Vladimír Hrubý (Vědecký ústav pro habilitaci, 1966)
Expts. concerning the
oxidation of H₂S into elementary S with lignite as a catalyst,
are described. A measure for evaluation of the ability of
coals to spontaneous combustion in accordance with the
ability of binding S to coal is also given. A method for the
test of tendency of coals to spontaneous combustion is
discussed. Finally the relation of the Fe contents and the
activity of coals to the amt. of H₂S and O is given.

I Hypr

LPH

PAVEL, Jiri, inz.; HRUBY, Vladimir

Measurement of the sedimentation dustiness in mines. Uhl 6 no. 8:
273-275 Ag '64.

1. Research Institute of Lignite, Most.

HRUBY, Vladimir

Fire extinction in surface lignite mining. Uhlí 4 no.1:11-13 Ja
'62.

1. Vzkumny ustav pro hnede uhli, Most.

HRUBY, Vladimir

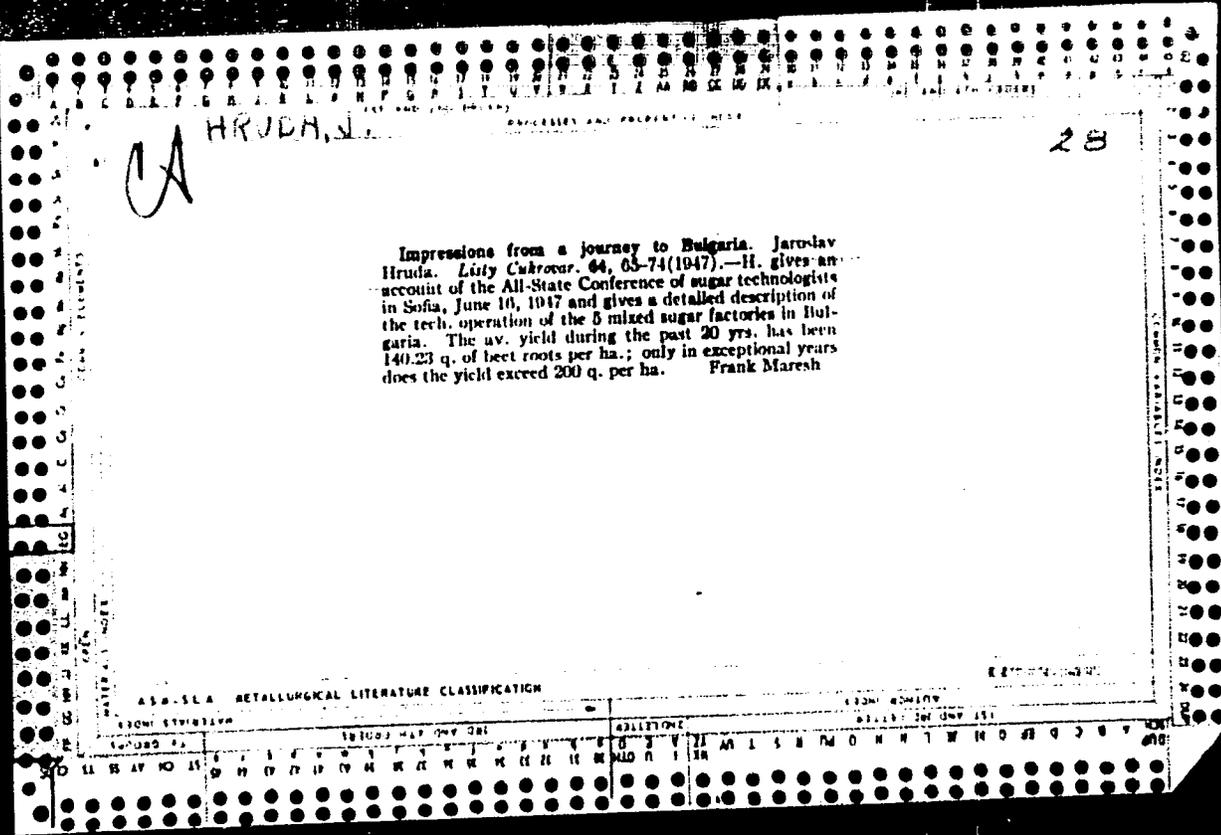
A new method of lignite classification according to its selfinflammation properties. Uhli 4 no.8:262-265 Ag '62.

1. Vyzkumny ustav pro hnede uhli, Most.

TYNECKI, Jozef; TOMPOLSKI, Czeslaw; HRUCZKOWSKI, Lech; WITORT, Malgorzata

Relationship between the total free amino acid content in the
maternal blood serum and in the cord blood in labor at term.
Pol. tyg. lek. 20 no.25:913-915 21 Je '65.

1. Z II Kliniki Poloznictwa i Chorob Kobiacych AM w Lublinie
(Kierownik: prof. dr. med. Jozef Tynecki).



Handwritten text, possibly a list or notes, including the word "Handwritten" and some illegible characters.

Handwritten signature or initials.

CZECHOSLOVAKIA

~~HRUDKA, F.~~; HORAKOVA, A.; HORAK, J.; Veterinary Faculty, College of Agriculture, Chair of Histology and Embryology (Veterinarska Fakulta VSP, Katedra Histologie a Embryologie), Kosice.

"Cytochemical Studies of Activity of Endogenous Reductases in Spermatozoa. III. Effect of Ionizing Radiation on the Motility and Activity of Endogenous Reductases and Succinodehydrogenase of the Ejaculated Bull Spermatozoa."

Prague, Veterinarni Medicina, Vol 11, No 6, Jun 66, pp 361-370

Abstract /Authors' English summary modified 7: 2000-5000 r reduce the motility of washed; 10,000 r, of unwashed spermatozoa. Succinodehydrogenase is more resistant to radiation than endogenous reductases. Radiation decreases the activity of the enzymes after a certain period of latency, which follows the irradiation. The inhibition starts slowly and increases linearly. The sensitivity of spermatozoa depends on the individuality of the donor. 0.15M NaCl solution increases the effect of irradiation on reductases, but does not affect the succinodehydrogenase. 3 Figures, 2 Tables, 12 Western, 7 Czech references. (Manuscript received 6 Nov 1965).
1/1

HRUDKA, Frantisek

Cytochemical methods for determining the vitality of spermatozoa.
Biologia 18 no.12:937-939 '63.

1. Histologicko-embryologicky ustav Veterinarskej fakulty a
Vysokej skoly polnohospodarskej V Kosiciach.

*

HRUDKA, Frantisek, MVDr. doc.; MUDRIN, Martin

Occurrence of vacuoles in the nucleoplasm of normal bull sperm.
Veter medicina 9 no.1:11-18 Ja '64.

1. Institute of Histology and Embryology of the Faculty of
Veterinary Medicine, Higher School of Agriculture, Kosice.
Director of the Institute: [doc. MVDr.] Frantisek Hrudka.

HRUDKA, Frantisek

Ultrastructure of a nucleolus (electron microscopic study of the nucleolus of Sertoli's cells). Biologia 15 no.7:525-530 '60.

(EEAI 10:2)

1. Ustav histologie a embryologie Veterinarskej fakulty Vysokej školy poľnohospodarskej, Kosice.

(CELLS) (ELECTRON MICROSCOPE)

HRUDKA, Frantisek

The ultrastructure of the membrana propria of testicular tubules.
Biologia 15 no.9:680-684 '60. (EEAI 10:4)

1. Ustzvy histologie a embryologie Veterinarnej fakulty, Vyskej skoly
polnohospodarskej, Kosice.

(MEMBRANES)

(TESTICLE)

MARAN, Bohuslav, akademik, laureat statni ceny; KAUT, Vl., inz.;
SVORCOVA, S., MUDr.; TUSL, M., MUDr., C.Sc.; RABA, Jan.;
MATERNA, Jan, inz.; KLIMECEK, Rostislav; BETTELHEIM, Jan, inz.;
HALA, Eduard, doc., inz., dr.; UHER, L., inz.; KORDIK, E.;
ERDOS, Emerich, doc., inz., dr.; VOSOLSOBE, Jan, doc., inz., dr.;
NADENIK, O., inz.; HRUDKA, J.; HOSTALEK, Zdenek, inz., dr.;
RADL, K., inz.; PEKAREK, Vl., MUDr.; BLISTAN, J., inz.; STORCH, O.
inz.

A national conference on protection against chemical fumes
from electric heat plants; a summary of reports. Energetika Cz
11 no.2:109-111 F '61.

SILHAN, A., inz.; HRUDKA, Z., promovany fyzik

Modeling freight transportation operations on automatic computers. Doprava no. 2:140-143 '64.

HRUDKA, Zdenek, promovany fyzik; MAZUR, Mojmir, promovany fyzik

Experience in calculating the time of traveling. Doprava no.4:
268-276 '63.

HRUDEA, Zdenek

Possibilities of drawing by a drawing device tachograms
calculated on computers. Doprava 6 no.6:468-469 '64.

HRUS, O.

Fatal copper sulfate poisoning. Arh. za hig. rada 12 no.1:45-47
'61.

1. Interni odjel Opce bolnice Split.
(SULFATES toxicol) (COPPER toxicol)

YUGOSLAVIA

Orest HRUS, Department of Internal Medicine of General Hospital (Odjel za unutrasnje bolesti Opce bolnice) Chief (Sef) Primarius Dr Lyubo SIMUNIC, Split.

"Morgagni-Adams-Stokes Syndrome as First Sign of Rheumatic Fever."

Belgrade, Srpski Arhiv za Celokupno Lekarstvo, Vol 90, No 11, Nov 62; pp 1115-1118.

Abstract [German summary modified]: Case in 21-year old man; unusual symptoms effectively receded under penicillin - prednisone therapy, and mitral stenosis was found next year, proving correctness of diagnosis on which treatment had been based. Two electrocardiograms; 7 Western references.

1/1

HRUSA, inz.

Klement Gottwald awards 1962 for electrical engineers. Elektro-
technik 17 no.6:183 Je '62.

HRUSA, Jan, Dr.; RUZICKA, Karel

Problems of terminology. Cas. lek. cesk. 91 no.16:487-488 18 Apr 52.

1. Ustav pro zdravotnickou dokumentaci.

(ANESTHESIOLOGY,
nomenclature in Czech.)

(NOMENCLATURE,
anesthesiol. in Czech.)

HRUSHIT, v.

SA
Sect. B

Regulation

621.316.718 : 621.86

2006. Automatically controlled d.c. winding machines. *J. Electr. Electron. Obz.*, 48, 243-8 (No. 11-14, 1951) in Cyril.

The merits of automatic controls of winding machines are discussed and three different types of automatic controls are described and compared, namely: amplifier controls, installed by Alstom in the Minus de la Moutere; controls applying curves on the depth indicator, installed in a Russian coal mine; servo controls applied by Westinghouse since 1930. In the Soviet-designed controls the speed at starting and stopping is controlled as a function of the trajectory; regulation is continuous. F. GROS

HRUSHA, J.
SA

621.316.71, 621.86, 621.35

4165. Praga speed governor for winding machines driven by a three-phase motor. J. Hruska. *Elektrický Obz.*, 40 (No. 4) 61-70 (1951) In Czech.

The Praga governor controls the operation of the machine by acting on a brake if the instantaneous speed differs from the appropriate programme speed. The programme speed is thereby defined as a function of time and is represented by the speed of a mass the movements of which are independent of the governor. The operation of the governor satisfies minute specifications and it is designed to provide automatic deceleration to a low speed followed by manual stopping precisely at the required level. If the operator does not take over the speed control from the automatically reduced speed, stopping will be brought about automatically by the governor at the appropriate level. Governors of this type are used in several Czech coalfields and their performance is fully satisfactory. The governor is described in detail and several performance diagrams are given.

F. GROB

621.316.71, 621.86, 621.35

4165. Praga speed governor for winding machines driven by a three-phase motor. J. Hruska. *Elektrický Obz.*, 40 (No. 4) 61-70 (1951) In Czech.

The Praga governor controls the operation of the machine by acting on a brake if the instantaneous speed differs from the appropriate programme speed. The programme speed is thereby defined as a function of time and is represented by the speed of a mass the movements of which are independent of the governor. The operation of the governor satisfies minute specifications and it is designed to provide automatic deceleration to a low speed followed by manual stopping precisely at the required level. If the operator does not take over the speed control from the automatically reduced speed, stopping will be brought about automatically by the governor at the appropriate level. Governors of this type are used in several Czech coalfields and their performance is fully satisfactory. The governor is described in detail and several performance diagrams are given.

F. GROB

454.554 METALLURGICAL LITERATURE CLASSIFICATION

REGIONAL INDEX

INDEX NUMBER

621.316.71, 621.86, 621.35

4165. Praga speed governor for winding machines driven by a three-phase motor. J. Hruska. *Elektrický Obz.*, 40 (No. 4) 61-70 (1951) In Czech.

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F. GROB

SA
Sect B

*Applications
Electric Drives*

1746. Schematic diagrams of connection for electric drives. J. Houša. *Elektrotech. Obz.*, 40, 285-93 (No. 15-18, 1951) in Czech.

621.34 : 621.3.061

The underlying principles of the use of symbols in

15

diagrams of connection for electrical equipment are discussed with particular regard to electric drives for traction, hauling and similar purposes. The method predominant in Germany and most other Western European countries of using one single diagram to show the main and auxiliary circuits as well as schematically, also the physical layout of the plant, so that it can be used for purposes of design as well as actual wiring on site, is compared with the method used in the U.S.A. and in the U.S.S.R. This favours the drawing up of three separate diagrams, one showing the main circuits, one the complete connections, and one the layout of the physical wiring. The principal symbols are explained.

H. NOBEL

S.A.

sect. B

Regulation

621.316.718 : 621.313.236.3 : 621.86
 2748. Compounding of d.c. voltage and their control
 by rotary regulators (amplidyne). J. Hradil. *Elek-
 trotech. Obz.*, 48, 383-91 (No. 20-24, 1951) in Czech.
 The various systems of compounding the control
 dynamo of a Ward-Leonard set (Sandhausen,
 Brown Boveri, Siemens-Schuckert, Československá
 Kolben Danek, Skoda, Jeumont) for winding

machinery and amplidyne speed regulation circuits
 for winding machinery are described and it is pointed
 out that only by using amplidyne-type controls is it
 possible to obtain an almost ideal speed control.
 Amplidyne control circuits used in the Soviet Union,
 America (Westinghouse) and France (Alsthom) are
 described.

HRUSA, J.

521.316.719 621.96
 speed control of winding machines. J. HrUSA
 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54 (1953)
 Description of two mechanical and two electrical
 methods of emergency braking of winding machines.
 Designed to begin the braking before the cable reaches
 its overrun section. They are essentially methods
 of speed control.

BX

621.316.71.074 : 621.86
 4685. Automatic units of the electric drive control of
 the first Soviet three-phase winding machine in Czechoslovakia. J. Hruska. *Elektrotech. Obzor*, 43, No. 7, 357-62 (1954) in Czech.

Rated data of the double-drum winding unit are: drum: dia. 2500 mm, width 1220 mm; rope: max. dia. 31 mm, max. length 805 m; max. permissible load 7500 kg; engine weight 36.7 metric tons; motor: 160 kW, 735 r.p.m.; gear ratio 1:20. The following automatic control units are described; the delay action induction relay in the stator control circuit; time relay in the rotor control circuit; the self-adjusting stator and rotor controller mechanism; the contactor arrangement of the starter system; series relays in the motor feeding circuit. The stator time delay relay serves as the adjusting factor for the event of the direction of run being reversed unduly fast; excess speed with which the controller arm may be set, is corrected by the rotor time relay in co-operation with the series relay. Two speed-control relays prevent excessive starting, operating and terminal velocities. The safety control circuit is described to incorporate the automatic magnetic brake, limit switches, and the automatic blocking device preventing load release prior to applying the safety brake control.

L. C. STANT

H R U S A , J

621.316.71.077.2 : 621.313.226
4683. Principal rotary regulator circuits employed in basic regulation problems. J. Hruša. *Elektrotech. Obzor*, 43, No. 8, 406-16 (1974) in Czech.

A general survey of rotary regulator circuits according to the purpose of regulation, such as constant or varying d.c. and a.c. voltages; a.c. voltage to increase linearly with the frequency; d.c. limiting and regulation; d.c. time progress regulation; d.c. distribu-

tion between two motors; a.c.; r.p.m.; synchronous motors, power factor and wattless output regulation. No critical assessment of the examples is presented.

J. C. STARK

HRUSA, J.

New shaft equipment for gold mines in South Africa. p. 47.
RUDY, Praha, Vol. 3, no. 2, Feb. 1955.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,
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250. SYMBOLIC RECORDING OF THE SEQUENCE OF SWITCHING OPERATIONS IN ELECTRIC DRIVES, J. Hruška, Elektrotech. Obzor, Vol. 47, No. 8, 304-9 (1956). In Czech.

Verbal description of the operation of drive equipment is usually lengthy and incomplete. A method is developed, according to which every step of the operation is described with the help of symbols. Separate symbols denote every one of six elementary switching operations. The method is illustrated by three examples, recording switching operations of a.c. and d.c. motor drives.

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16(1)

PHASE I BOOK EXPLOITATION

CZECH/2663

Hruša, Karel, Doctor, Docent

Deset kapitol z diferenciálního a integrálního počtu (Ten Chapters on Differential and Integral Calculus, 3rd ed. Praha, Nakl. ČAV, 1959. 170 p. (Series: Československá Akademie Věd. Sekce matematicko-fyzikální. Věda všem, sv. 19) 8,250 copies printed.

Scientific Ed.: Miroslav Fiedler, Doctor; Reviewer: Ilja Černý, Candidate of Mathematical and Physical Sciences; Tech. Ed.: Jan Rejda; Ed.: Lidmila Jánská.

PURPOSE: This book is intended for the layman with a secondary school mathematics background.

COVERAGE: This book, although not a textbook, is intended to familiarize the reader with the basic concepts and methods of differential and integral calculus. The book avoids discussion of the details of calculus, but although the ideas are simple the presentation is precise and proofs are rigorous.

Card 1/4

Ten Chapters on Differential (Cont.)

CZECH/2663

Through the book, stress is placed on the logical development and presentation of fundamental concepts. Each chapter contains a set of problems to test the reader's ability. The book was first published in 1952, and a second edition came out in 1954. The present edition contains some improvements and includes a list of often used formulas. The author thanks Dr. Miroslav Fiedler for editing the book for publication and Ilja Černý for his help in preparing the book. There are no references.

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12-31-59

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Technical and economic analysis of automation projects.
Automatizace 6 no.7:166-169 JI '63.

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CZECHOSLOVAKIA

SEDLAK, J.; HRUSCHKA, J.; Chair of Psychology, J.E. Purkyne University, Brno; Psychological Laboratory Klement Gottwald Nova Hut Works, Ostrava. [Original version not given].

"Rest Periods During the Shifts of Workers Operating on Automated Lines."

Prague, Activitas Nervosa Superior, Vol 8, No 2, Jun 66, pp 151-159

Abstract: Experiments were conducted on 10 workers employed at the automated line for the production of engine heads and crankshaft housings at the plant producing "Zetor Major" tractors. Dynamometry, tapping, and dotting were used in the study. Pressure of the right and left hands and accuracy of movements were recorded after every working hour. The greatest drop in productivity occurs after the 4th hour of work; in the past the break took place after more than 4 hours; when it was advanced so that it would be taken at the critical time, an improvement of the performance was noticed. 3 Figures, 10 Western, 10 Czech, 2 Russian, 2 East German references. Article is in German.

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Slevarenstvi 12 no.1:11-12 Ja'64.

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HRUSKA, A.

Determination of cation exchange. Slevarenstvi 11 no.5:214
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POL AD: 2/ESD(EN)/ESD(L) AT
ACCESSION NR: AP4044593 Z/0055/64/014/008/0586/0593

AUTHOR: Hruska, A.

TITLE: Hydromagnetic instability of contra-streaming plasmas

SOURCE: Chaskhlovatskiy fizicheskii zhurnal, v. 14, no. 8, 1964, 586-593

TOPIC TAGS: plasma, plasma beam, opposed plasma beam, plasma stability

ABSTRACT: The stability of a system consisting of two contra-streaming plasmas is considered and criteria of its stability in respect to low-frequency perturbations are sought. In this instance the existence of an external magnetic field parallel to the velocity of the contra-streaming is assumed and short range interactions of the particles are taken into account. The velocity of an ionized gas streaming through another ionized gas V is assumed to be much higher than

... of an external magnetic field parallel to the velocity of the
~~counter-streaming is assumed and short range interactions of the par-~~
ticles are taken into account. The velocity of an ionized gas stream-
ing through another ionized gas V is assumed to be much higher than
the mean thermal velocities of all particles in the process, the mo-
tion of any particle is governed by collisions with particles of its
own plasma rather than by collisions with particles of the other plas-

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ACCESSION NR: AP4044393

na, and the time scale of contra-streaming is much higher than the inverse power of the typical frequency ω of the perturbations. Linearized equations are used to describe the disturbed motion of particles. It was found that the differences between the perturbed densities of electrons and between the velocity differences are negligibly small compared with the density disturbances. It is shown that the system is unstable when the density of the two plasmas exceeds

...the perturbation
...of electrons and between the velocity difference, are negligi-
bly small compared with the density disturbances. It is shown that
the system is unstable when the density of the two plasmas exceeds
the magnetic energy density, and it is concluded that any hydrodynamic
contra-streaming is unstable in the absence of an external magnetic
field. Orig. art. has 2 figures.

ASSOCIATION: Geophysics Institute, Czechoslovak Academy of Sciences

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Propagation of radio waves across a velocity discontinuity in
a zero temperature plasma. Chekosl fiz zhurnal 14 no. 6:
417-422 '64.

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BULLETIN OF THE ASTRONOMICAL INSTITUTES OF CZECHOSLOVAKIA.
Vol. 10, no. 2, Mar. 1959

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Vol. 10, no. 5, Sept. 1959.

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Uncl.

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AUTHOR: Hruška, A.

TITLE: Equations of plasma magnetodynamics

PERIODICAL: Pokroky matematiky, fysiky a astronomie, no. 3, 1960,
308-326

TEXT: This article is concerned with a more detailed treatment of the dynamic and magnetodynamic laws. The micro-pole is analyzed (single charged particle) and used in determining the laws of the microscopic units. An ionized gas is assumed behaving almost like an ideal gas - i.e. one having no influence on itself. If R is the mean distance between particles, K = Boltzmann's constant, and T = the temperature

(1) $\frac{e^2}{R} \ll KT$; and (2) $n \ll \left(\frac{KT}{e^2}\right)^3$; n = density; it is assumed that

(2) is always valid. Relaxation time: if v_a is the speed of a selected atom - the average value (Maxwell) is approximately $(KT/m_a)^{1/2}$; this

gives $\tilde{v}_a \sim \frac{1}{n Q^2 (KT/m_a)^{1/2}}$ for the relaxation time, where Q = the atom radius. The difference between